1011

the

RAW SEQUENCE LISTING

DATE: 06/14/2001 TIME: 13:03:05

PATENT APPLICATION: US/09/779,050A

Input Set : A:\A-570B.ST25.txt

Output Set: N:\CRF3\06142001\1779050A.raw

3	<110)> A	PPLI	CANT	: BO	YLE,	WIL	LIAM									
4																	
-	<120> TITLE OF INVENTION: RECEPTOR FROM THE FAMILY																
	S <130> FILE REFERENCE: A-570B O <140> CURRENT APPLICATION NUMBER: 09/779,050A L <141> CURRENT FILING DATE: 2001-02-12 S <150> PRIOR APPLICATION NUMBER: 60/181,800 A <151> PRIOR FILING DATE: 2000-02-11 S <160> NUMBER OF SEO ID NOS: 52															CD	
	1 <141> CURRENT FILING DATE: 2001-02-12																
	<150										800				,		سد
	<151								-						•	Coo	ۍ.م
	<160															266	1
	<170					entI	n ve	rsio	n 3.	0							
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	2 <212> TYPE: DNA																
	3 <213> ORGANISM: Homo sapiens 5 <220> FEATURE:																
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	<222		-			3)	(997)									
	<400				-	•		•									
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	4 cetteaaagt teaagtagtg at atg gat gae tee aca gaa agg gag eag tea 172													120			
														172			
35								t As	o Asj	p Se		r GI	ı Ar	g GI	ı Gli		
36	cgc	a++	2.at	+ a+	+ 00	at t	1	222	2072	~~	5	2+4	222	ata	220	10	220
	Arg																220
40	**** 9	Lea		001	15	Leu	2,2		*** 9	20	014		275	Lea	25	014	
42	tgt	gtt	tcc	atc	ctc	cca	cgg	aag	gaa	agc	ccc	tct	gtc	cga	tcc	tcc	268
	Cys																
44				30					35					40			
	aaa																316
4 / 4 8	Lys	Asp	G1y 45	Lys	Leu	Leu	Ala	A1a 50	Thr	Leu	Leu	Leu	A1a 55	Leu	Leu	Ser	
	tgc	tac		aca	ata	ata	tet		tac	can	ata	acc		cta	caa	aaa	364
	Cys																501
52	1	60					65					70			-	1	
	gac																412
	Asp	Leu	Ala	Ser	Leu	-	Ala	Glu	Leu	Gln	_	His	His	Ala	Glu	_	
56						80					85					90	
	ctg																460
59 60	Leu	Pro	Ата	GLY	95	СТА	Ата	Pro	гуѕ	100	GTA	reu	GIU	GIU	105	Pro	
	gct	atc	acc	aca		cta	aaa	atc	+++		cca	cca	act	cca		паа	508
	Ala																300
64				110	-1		1 -		115					120	1		
	ggc													cag			556
	Gly	Asn		Ser	Gln	Asn	Ser			Lys	Arg	Ala		Gln	Gly	Pro	
68			125					130					135				

RAW SEQUENCE LISTING DATE: 06/14/2001 TIME: 13:03:05 PATENT APPLICATION: US/09/779,050A

Input Set : A:\A-570B.ST25.txt
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70 gaa gaa aca gtc act caa gac tgc ttg caa 71 Glu Glu Thr Val Thr Gln Asp Cys Leu Gln	Leu Ile Ala Asp Ser Glu											
72 140 145 74 aca cca act ata caa aaa gga tct tac aca 75 Thr Pro Thr Ile Gln Lys Gly Ser Tyr Thr												
76 155 160 78 agc ttt aaa agg gga agt gcc cta gaa gaa 79 Ser Phe Lys Arg Gly Ser Ala Leu Glu Glu												
80 175 180	185											
82 gtc aaa gaa act ggt tac ttt ttt ata tat 83 Val Lys Glu Thr Gly Tyr Phe Phe Ile Tyr 84 190 195												
86 gat aag acc tac gcc atg gga cat cta att 87 Asp Lys Thr Tyr Ala Met Gly His Leu Ile	Gln Arg Lys Lys Val His											
88 205 210 90 gtc ttt ggg gat gaa ttg agt ctg gtg act	215 ttg ttt cga tgt att caa 844											
91 Val Phe Gly Asp Glu Leu Ser Leu Val Thr 92 220 225												
94 aat atg cct gaa aca cta ccc aat aat tcc	· · · · · · · · · · · · · · · · · · ·											
95 Asn Met Pro Glu Thr Leu Pro Asn Asn Ser 96 235 240	Cys Tyr Ser Ala Gly 11e 245 250											
98 gca aaa ctg gaa gaa gga gat gaa ctc caa												
99 Ala Lys Leu Glu Glu Gly Asp Glu Leu Gln												
100 255 260 265												
102 aat doa daa ata toa otd dat doa dat dto	aca ttt ttt dot doa ttd 988											
102 aat gca caa ata tca ctg gat gga gat gtc 103 Asn Ala Gln Ile Ser Leu Asp Gly Asp Val 104 270 275	Thr Phe Phe Gly Ala Leu											
	l Thr Phe Phe Gly Ala Leu 280											
103 Asn Ala Gln Ile Ser Leu Asp Gly Asp Val 104 270 275 106 aaa ctg ctg tgacctactt acaccatgtc tgtag 107 Lys Leu Leu	l Thr Phe Phe Gly Ala Leu 280											
103 Asn Ala Gln Ile Ser Leu Asp Gly Asp Val 104 270 275 106 aaa ctg ctg tgacctactt acaccatgtc tgtag 107 Lys Leu Leu 108 285	Thr Phe Phe Gly Ala Leu 280 gctatt ttcctccctt 1037											
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103 Asn Ala Gln Ile Ser Leu Asp Gly Asp Val 104 270 275 106 aaa ctg ctg tgacctactt acaccatgtc tgtag 107 Lys Leu Leu 108 285	Thr Phe Phe Gly Ala Leu 280 gctatt ttcctccctt 1037 aatac caaaaaaaaa aaaaaaaaa 1097											
103 Asn Ala Gln Ile Ser Leu Asp Gly Asp Val 104 270 275 106 aaa ctg ctg tgacctactt acaccatgtc tgtag 107 Lys Leu Leu 108 285 110 tctctgtacc tctaagaaga aagaatctaa ctgaaa 112 aaaaaaagt agttaaaaaa aaaaaaaaaa 114 aaaaactcgg aggggg 117 <210> SEQ ID NO: 2	Thr Phe Phe Gly Ala Leu 280 gctatt ttcctccctt 1037 aatac caaaaaaaaa aaaaaaaaa 1097 aaaaa aaaaaaaaaa 1157											
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103 Asn Ala Gln Ile Ser Leu Asp Gly Asp Val 104 270 275 106 aaa ctg ctg tgacctactt acaccatgtc tgtag 107 Lys Leu Leu 108 285 110 tctctgtacc tctaagaaga aagaatctaa ctgaaa 112 aaaaaaaagt agttaaaaaa aaaaaaaaaaaaaaaa	Thr Phe Phe Gly Ala Leu 280 gctatt ttcctccctt 1037 aatac caaaaaaaaa aaaaaaaaaa 1097 aaaaa aaaaaaaaaa aaaaaaaaa 1157 1173 T Arg Leu Thr Ser Cys Leu 15 a Cys Val Ser Ile Leu Pro											
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103 Asn Ala Gln Ile Ser Leu Asp Gly Asp Val 104	Thr Phe Phe Gly Ala Leu 280 gctatt ttcctcctt 1037 aatac caaaaaaaaa aaaaaaaaaa 1097 aaaaa aaaaaaaaaa 1157 1173 T Arg Leu Thr Ser Cys Leu 15 a Cys Val Ser Ile Leu Pro 30 a Lys Asp Gly Lys Leu Leu 45											
103 Asn Ala Gln Ile Ser Leu Asp Gly Asp Val 104	Thr Phe Phe Gly Ala Leu 280 gctatt ttcctcctt 1037 aatac caaaaaaaaa aaaaaaaaa 1097 aaaaa aaaaaaaaa aaaaaaaaa 1157 1173 T Arg Leu Thr Ser Cys Leu 15 a Cys Val Ser Ile Leu Pro 30 c Lys Asp Gly Lys Leu Leu 45 c Cys Cys Leu Thr Val Val 60 c Asp Leu Ala Ser Leu Arg											
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DATE: 06/14/2001 TIME: 13:03:05 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/779,050A

Input Set : A:\A-570B.ST25.txt
Output Set: N:\CRF3\06142001\1779050A.raw

145					85					90					95		
		D	T	21		T	01	01				37- 3	m la			.	
	АТа	Pro	гуѕ			Leu	GIU	GIU		Pro	AĻa	val	THE		GIA	Leu	
149				100	•				105					110			
152	Lys	Ile	Phe	Glu	Pro	Pro	Ala		Gly	Glu	Gly	Asn	Ser	Ser	Gln	Asn	
153			115					120					125				
156	Ser	Arg	Asn	Lys	Arg	Ala	Val	Gln	Gly	Pro	Glu	Glu	Thr	Val	Thr	Gln	
157		130					135					140					
160	Asp	Cys	Leu	Gln	Leu	Ile	Ala	Asp	Ser	Glu	Thr	Pro	Thr	Tle	Gln	Lvs	
	145	-1-				150		E			155				02	160	
		Ser	ጥ፣፣ም	Thr	Dho		Dro	Trn	LOU	TOU		Dho	Tvc	λκα	C111		
	Gry	261	1 Y 1	1111	165	Val	FIU	пр	Leu		Set	FIIC	гуз	Ary	_	Ser	
165	~ 7	_	a 1	a 1		a 1	_	_	- 1	170		_	~ 3		175	_	
	АТа	Leu	GIU		ьys	Glu	Asn	ьуs		Leu	vaı	Lys	GIu		GTA	Tyr	
169				180					185					190			
172	Phe	Phe	Ile	Tyr	Gly	Gln	Val	Leu	Tyr	Thr	Asp	Lys	Thr	Tyr	Ala	Met	
173			195					200					205				
176	Gly	His	Leu	Ile	Gln	Arq	Lys	Lys	Val	His	Val	Phe	Gly	Asp	Glu	Leu	
177	-	210					215	•				220	_	-			
	Ser	Leu	Va 1	Thr	Leu	Dhe		Cve	Tla	Gln	Δen		Dro	Glu	Thr	Τ.Δ11	
	225	LCu	, vul	1111	neu	230	my	Cys	110	GIII	235	Mec	110	Giu	1111	240	•
		7 ~ ~	7 ~ ~	C	0			31	01	T1 -		T	T	a 1	a 1		
	Pro	Asn	ASII	ser	_	туг	ser	Ата	СТА		Ата	ьys	Leu	GIU		GIA	
185				_	245	_	_			250					255		
188	Asp	Glu	Leu		Leu	Ala	Ile	Pro		Glu	Asn	Ala	Gln	Ile	Ser	Leu	
189				260					265					270			
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196	<210)> SE	EO II	ONO:	: 3												
		l> LE															
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					Mus	musc	Julus	•									
)> FE													•		
		L> NA				_											
		2> LC) (9	978)										
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207															Met	Asp	
208															1	-	
210	σασ	tct	αca	aaq	acc	cta	cca	cca	cca	tac	ctc	tat	+++	tac	tcc	σασ	105
		Ser							_	_		_		_			103
	Giu	261		БУЗ	1111	ьец	PIO		PIO	Cys	Leu	Cys		Cys	ser	GIU	•
212			5					10					15				250
214	aaa	gga	gaa	gat	atg	aaa	gtg	gga	tat	gat	ccc	atc	act	ccg	cag	aag	153
	Lys	Gly	Glu	Asp	Met	Lys		Gly	\mathtt{Tyr}	Asp	Pro		Thr	Pro	Gln	Lys	
216		20					25					30					
218	gag	gag	ggt	gcc	tgg	ttt	ggg	atc	tgc	agg	gat	gga	agg	ctg	ctg	gct	201
		Glu															
220			•		-	40	-		-		45	-	_			50	
		200	ata	ata	cta		cta	t.ta	tee	age		ttc	aca	aca	atσ		249
	act.									~ ~ ~	~ ~ ~		u - u	7 - 4	464	~~~	27
	gct Ala																
223		Thr			Leu					Ser					Met		
223 224	Ala	Thr	Leu	Leu	Leu 55	Ala	Leu	Leu	Ser	Ser 60	Ser	Phe	Thr	Ala	Met 65	Ser	207
223 224	Ala		Leu	Leu	Leu 55	Ala	Leu	Leu	Ser	Ser 60	Ser	Phe	Thr	Ala	Met 65	Ser	297

RAW SEQUENCE LISTING

DATE: 06/14/2001 TIME: 13:03:05 PATENT APPLICATION: US/09/779,050A

Input Set : A:\A-570B.ST25.txt
Output Set: N:\CRF3\06142001\1779050A.raw

227 228	Leu	Tyr	Gln	Leu 70	Ala	Ala	Leu	Gln	Ala 75	Asp	Leu	Met	Asn	Leu 80	Arg	Met	
	a 2 a	ata	000		+	000	~~+	+ 00				~~~	~~~		~~+	~~+	215
																gct	345
	GIU	ьeu	Gln	ser	туг	Arg	GIY		Ата	Thr	Pro	Ата		Ата	GTĀ	Ala	
232			85					90					95				
			ttg														393
235	Pro	Glu	Leu	Thr	Ala	Gly	Val	Lys	Leu	Leu	Thr	Pro	Ala	Ala	Pro	Arg	
236		100					105					110					
238	ccc	cac	aac	tcc	agc	cqc	qqc	cac	ágg	aac	aga	cqc	act	ttc	caq	gga	441
			Asn														
	115					120					125	5				130	
		πaπ	gaa	aca	maa		rat	ata	a a c	ata		act	cct	cat	aca		489
			Glu														409
	PIO	GIU	GIU	1111		GIII	ASP	Val	ASP		ser	Ala	PLO	PIO		PIO	
244					135		_			140		4			145		
	_	_	cct		_	_					_	_			_		537
247	Cys	Leu	Pro		Cys	Arg	His	Ser	Gln	His	Asp	Asp	Asn	Gly	Met	Asn	
248				150					155					160			
250	ctc	aga	aac	atc	att	caa	gac	tgt	ctg	cag	ctg	att	gca	gac	agc	gac	585
251	Leu	Arg	Asn	Ile	Ile	Gln	Asp	Cys	Leu	Gln	Leu	Ile	Ala	Asp	Ser	Asp	
252		_	165				-	170					175	-		-	
	acq	cca	act	ata	сσа	aaa	ααa	act	tac	aca	t.t.t.	at.t.	cca	taa	ctt	ctc	633
			Thr														
256		180		110	9	2,5	185		- 7 -		1 110	190	110	111	пса	пса	
	300		aaa	202	aas	22+		++~	a2a	a 2 a	222		220	222	2+2	at a	681
																	001
		Pile	Lys	Arg	GTA		Ala	ьeu	GIU	GIU	_	GIU	ASI	Lys	ше		
	195					200					205					210	
			caa														729
	Val	Arg	Gln	Thr	Gly	Tyr	Phe	Phe	Ile	Tyr	Ser	Gln	Val	Leu	${ t Tyr}$	Thr	
264					215					220					225		
266	gac	CCC	atc	ttt	gct	atg	ggt	cat	gtc	atc	cag	agg	aag	aaa	gta	cac	777
267	Asp	Pro	Ile.	Phe	Ala	Met	Gly	His	Val	Ile	Gln	Arg	Lys	Lys	Val	His	
268				230					235					240			
270	qtc	ttt	ggg	qac	qaq	cta	agc	cta	ata	acc	cta	ttc	cga	tat	att	caq	825
			Gly														
272			245					250					255	· 1 ·			·
	aat	ato	ccc	aaa	aca	cta	ccc		aat	tcc	tac	tac		act	aac	atc	873
			Pro														075
276	ASII		PIO	гуз	TIII	Leu		ASII	ASII	ser	Cys	_	Leu	нта	GIY	116	
		260					265					270					001
			ctg														921
		Arg	Leu	Glu	Glu		Asp	Glu	Ile	Gln		Ala	Ile	Pro	Arg		
280						280					285					290	
282	aat	gca	cag	att	tca	cgc	aac	gga	gac	gac	acc	ttc	ttt	ggt	gcc	cta	969
283	Asn	Ala	Gln	Ile	Ser	Arg	Asn	Gly	Asp	Asp	Thr	Phe	Phe	Gly	Ala	Leu	
284					295					300					305		
286	aaa	ctq	ctg	taac	ctcac	ett d	ctqq	ragto	c at	gato	ccct	tcc	ctco	rtct			1018
	Lys					-		د. ب	, ,	,							
				.ccaa	aaaa	or aa	acan	racca	cto	gaaa	aat	aaaa	gato	י ממ	aaan	gccgtc	1078
292	agen	เลลลด		tete	יתדת:	ים מני	atta	raato	tra	tee	aac	Carro	1222+	at a	acao	jacago	1138
294		, auu g	,		, y cyc		. y	Juuce	. cyc		iuuc	cuyy	lauut	.u. 0	acag	, acayc	1139
434																	1139

RAW SEQUENCE LISTING

DATE: 06/14/2001 TIME: 13:03:05

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Input Set : A:\A-570B.ST25.txt

Output Set: N:\CRF3\06142001\1779050A.raw

297 <210> SEQ ID NO: 4 298 <211> LENGTH: 309 299 <212> TYPE: PRT 300 <213> ORGANISM: Mus musculus 302 <400> SEQUENCE: 4 304 Met Asp Glu Ser Ala Lys Thr Leu Pro Pro Pro Cys Leu Cys Phe Cys 10 308 Ser Glu Lys Gly Glu Asp Met Lys Val Gly Tyr Asp Pro Ile Thr Pro 25 312 Gln Lys Glu Glu Gly Ala Trp Phe Gly Ile Cys Arg Asp Gly Arg Leu 40 316 Leu Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Ser Phe Thr Ala 320 Met Ser Leu Tyr Gln Leu Ala Ala Leu Gln Ala Asp Leu Met Asn Leu 324 Arg Met Glu Leu Gln Ser Tyr Arg Gly Ser Ala Thr Pro Ala Ala Ala 325 90 85 328 Gly Ala Pro Glu Leu Thr Ala Gly Val Lys Leu Leu Thr Pro Ala Ala 105 332 Pro Arg Pro His Asn Ser Ser Arg Gly His Arg Asn Arg Arg Ala Phe 115 120 336 Gln Gly Pro Glu Glu Thr Glu Gln Asp Val Asp Leu Ser Ala Pro Pro 130 135 140 340 Ala Pro Cys Leu Pro Gly Cys Arg His Ser Gln His Asp Asp Asn Gly 150 155 344 Met Asn Leu Arg Asn Ile Ile Gln Asp Cys Leu Gln Leu Ile Ala Asp 165 170 348 Ser Asp Thr Pro Thr Ile Arg Lys Gly Thr Tyr Thr Phe Val Pro Trp 185 352 Leu Leu Ser Phe Lys Arg Gly Asn Ala Leu Glu Glu Lys Glu Asn Lys 353 195 200 356 Ile Val Val Arg Gln Thr Gly Tyr Phe Phe Ile Tyr Ser Gln Val Leu 215 360 Tyr Thr Asp Pro Ile Phe Ala Met Gly His Val Ile Gln Arg Lys Lys 230 235 364 Val His Val Phe Gly Asp Glu Leu Ser Leu Val Thr Leu Phe Arg Cys 245 250 368 Ile Gln Asn Met Pro Lys Thr Leu Pro Asn Asn Ser Cys Tyr Leu Ala 260 265 372 Gly Ile Ala Arg Leu Glu Glu Gly Asp Glu Ile Gln Leu Ala Ile Pro 280 376 Arg Glu Asn Ala Gln Ile Ser Arg Asn Gly Asp Asp Thr Phe Phe Gly 290 295 380 Ala Leu Lys Leu Leu 381 305 384 <210> SEQ ID NO: 5 385 <211> LENGTH: 278 386 <212> TYPE: PRT 387 <213> ORGANISM: Homo sapiens

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.





DATE: 06/14/2001 PATENT APPLICATION: US/09/779,050A TIME: 13:03:06

Input Set : A:\A-570B.ST25.txt

Output Set: N:\CRF3\06142001\I779050A.raw

```
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L:401\ M:341\ W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:1146 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25
L:1159 \ M:341 \ W: (46) \ "n" \ or "Xaa" \ used, for SEQ ID#:25
L:1162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:1168 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:26
L:1181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1190 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:27
L:1203 \ M:341 \ W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L\!:\!1218~M\!:\!341~W\!: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
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